



Lipid-Based Drug Delivery Systems: The Key Ingredient for Future Medicine

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Message from the Guest Editors

Lipid-based matrices are state-of-the-art tools employed to envelop and protect a vast range of therapeutics from degradation and to deliver them safely to the site of action. Due to their unique ability to compartmentalise hydrophilic and hydrophobic components, they have been utilized to achieve targeted and/or controlled drug release. Whilst a plethora of lipidic drug carriers have been reported in the last few decades, with many lipid-based products already on the market or undergoing clinical trials, there is still a pressing need for new formulations tailored to target different sites of action and to incorporate novel drugs. Research into the innovative use of lipidic platforms in pharmaceuticals is vital for their application as a mean to modify or control the release of drugs in vitro and in vivo. This Special Issue aims to highlight research on the encapsulation of pharmaceuticals and bio-pharmaceuticals in lipidic systems, their behaviour in biological environments, controlled release kinetics, and organ-specific bioavailability (e.g., through a targeting strategy). Reviews or original articles on these topics are welcome.





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